

Friday, May 06, 2016 8:55:28 AM

1 45938

Page 1

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Item Name: GHW Modification, Fits LH or RH

Start Date: 4/25/2016 **Start Qty:** 10.00

10 20

Cust Item ID:

Required Date: 5/5/2016 Req'd Qty: 10.00

10 20

Customer:

Reference:

Approvals: **Process Plan:** dm

Date: 16/05/06

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
100 DC	Document Control	0.00	DAS 6 9-89						
Doc.Control -USB or Paperwork	Memo Photocopy bluefile and type labels with Eurocopter part# (2 GHW Kits per box) as per PPP D350-615-041 CHG003	0.00							
110 Small Fab	Small Fab	0.00							
Small Fab	Memo Assemble D2282-041 with D2282-043 as per Dwg D350-615 ***Only engage one thread on three 5/16-18-015C bolts***	1.10							
120 QC	QC5- Inspect part completeness to step on W/O	0.00							
Quality Control	Memo	0.20							

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
24 8 24		24 8 24		Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Work Order ID 145938

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145938

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Item ID: D350-615-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: GHW Modification, Fits LH or RH
Start Date: 4/25/2016 Start Qty: 10.00 ***10*** Cust Item ID:
Required Date: 5/5/2016 Req'd Qty: 10.00 ***10*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	QC4- 100% Inspect kits for completeness	0.00							
130						20X			
QC	Memo	0.30							
Quality Control									
140		0.00							
140						20X			
Packaging	Memo	0.00							
Packaging	Identify with Eurocopter and Dart part# using permanent ink stamp and pack for shipping as per PPP D350-615-041 Location :FG023								
150	QC21- Final Inspection - Work Order Release	0.00							
150									
QC	Memo	1.00							
Quality Control									

SEP 20 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

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Page 1

Work Order ID: 145938

145938

Parent Item: D350-615-041

D350-615-041

Parent Item Name: GHW Modification, Fits LH or RH

Start Date: 4/25/2016

Required Date: 5/5/2016

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP Rev:K Removed Manufacturing 05-12-05 JLM IPP Rev:L
revise bom DD 10.03.18 verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2282-041 *D2282-041* T Assembly		Manufactured	No			110	Each	0.0000	1	10 20 B 149962		20	DAS 30 9-89
D2282-043 *D2282-043* Saddle Assembly		Manufactured	No			110	Each	2.0000	1	10 20 149963			DAS 6 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				GA				2					
				142541				2					
5/16-18-015C *5/16-18-015C* SS Bolt 5/16-181.5"K		Purchased	No			110	Each	64.0000	3	30 60 135440			DAS 6 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				ST583				64					
				m134359				64					
D3015-3 *D3015-3* Locknut		Manufactured	No			110	Each	110.0000	3	30 60 149306			DAS 6 9-89
				<u>Location</u>				<u>Loc Qty</u>		<u>Loc Code</u>			
				FG				18					
				95758				8					
				96151				10					
				ST015				92					
				141898				92					

SEP 20 2016

SEP 14 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Work Order ID: 145938

145938

Parent Item: D350-615-041

D350-615-041

Parent Item Name: GHW Modification, Fits LH or RH

Start Date: 4/25/2016

Required Date: 5/5/2016

Start Qty: 10.00

Required Qty: 10.00

5/16WC *5/16WC* Washer	Purchased	No	110	Each	109.0000	12	120 240 135440	DAS 6 9-89
							**	
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			ST583	109				
			m134359	109				
7/16-14-050C *7/16-14-050C* SS Bolt 7/16 5"K Long (92198A672)	Purchased	No	110	Each	57.0000	1	1020 135412	DAS 6 9-89
							**	
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			ST584	57				
			m134349	57				
D3015-5 *D3015-5* SS Nylock Nut 7/16	Manufactured	No	110	Each	43.0000	1	1020 148147x10 10x3150081	DAS 6 9-89
							**	
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			ST025A	43				
			141899	43				
7/16WC *7/16WC* Washer, SS Flat 7/16	Purchased	No	110	Each	10.0000	2	2040 135440	DAS 6 9-89
							**	
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			st572	10				
			120508	10				

SEP 14 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
3AC 3 10-0 3AU 3 3E-8				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					



DESIGN BW	DRAWN BY KE	DART AEROSPACE LTD VICTORIA INTERNATIONAL AIRPORT, CANADA	
CHECKED [Signature]	APPROVED BW	DRAWING NO. D350-615	REV. B SHEET 1 OF 2
DATE 97.10.21		TITLE GROUND HANDLING WHEEL MOD. SCALE NTS	
A	95.03.23	NEW ISSUE	
B	97.10.21	CHANGE NUMBERING SCHEME	

-041	Part No.	Description
X	D350-615-041	Ground Handling Wheel Mod.
1	D2282-041	"T" ASSEMBLY
1	D2282-043	SADDLE ASSEMBLY
3	5/16-18-015C	5/16 BOLT 1.5 LONG
3	5/16-18NC	5/16 LOCKNUT (D3015-3)
12	5/16WC	5/16 WASHER
1	7/16-14-050C	7/16 BOLT 5.0 LONG
1	7/16-14NC	7/16 LOCKNUT (D3015-5)
2	7/16WC	7/16 WASHER

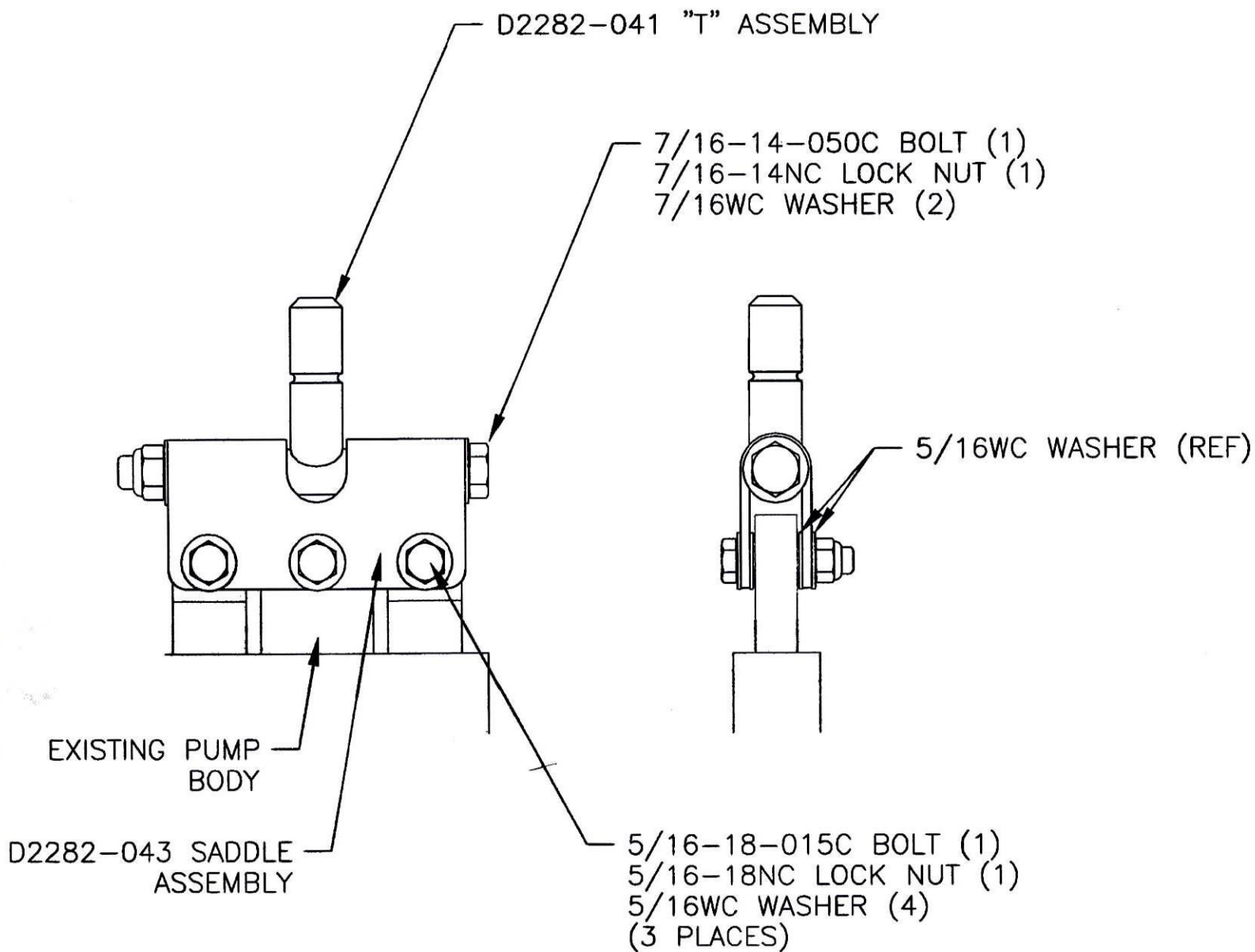
THESE INSTRUCTIONS ARE TO BE USED IN CONJUNCTION WITH
THE AIRCRAFT MAINTENANCE AND OVERHAUL INSTRUCTION MANUAL
AC43.13.1A & 2A ACCEPTABLE METHODS, TECHNIQUES, AND PRACTICES

INSTALLATION:

1. Remove existing ground handling wheel pump saddle.
2. Replace saddle with D350-615-041.
3. Torque 5/16 bolts to bottom, then back-off half turn to allow easy rotation without excessive play.

DART

DESIGN	KE	DRAWN BY	KE	DART AEROSPACE LTD VICTORIA INTERNATIONAL AIRPORT, CANADA	REV. B
CHECKED	DM	APPROVED	KE	DRAWING NO. D350-615	SHEET 2 OF 2
DATE	97.10.21	TITLE	GROUND HANDLING WHEEL MOD.	SCALE	NTS



DART SERVICE INSTRUCTION

APPLICABLE TO ALL DART AS350B3 PRODUCT

Purpose:

To confirm applicability of Dart STC product to the AS350B3e

Discussion:

Per EASA TCDS.R.008 Issue 5 dated June 17, 2011:

"The AS350B3 model a/c, which type design incorporates the following modifications:

a) OP-4305 (Arriel2D engine installation), and additionally

b) 07-5601 (Tail rotor control mechanism modification)

c) 07-5600 (Tail rotor blade reinforcement)

d) 07-8551 (Tail Gear Box control lever modification)

has a commercial designation <AS350B3e>"

Conclusion:

The AS350B3e is a commercial designation of the AS350B3 and not a new aircraft type. The changes described above do not affect the existing Dart Aerospace Ltd. product line for the AS350B3. Therefore, all Dart Aerospace Ltd products which are approved on the AS350B3 are also approved on the AS350B3e.

A	NEW ISSUE	RF	11.08.03
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9568	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	AS350B3e APPLICABILITY	NTS
DATE	11.08.03	COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	